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ARTICLE 34 AMENDMENT

Applicant(s): Hiroyuki Kado et al.

Title: PLASMA DISPLAY PANEL WITH SUPERIOR LIGHT-
EMITTING CHARACTERISTICS, AND METHOD AND
APPARATUS FOR PRODUCING THE PLASMA
DISPLAY PANEL

Attorney's
Docket No.: NAK1-BN23

"EXPRESS MAIL" MAILING
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AMENDMENT

TO: Commissioner of the Patent Office

1. Identification of the International Application

PCT/JP99/03189

2. Applicant (Common Representative)

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4. Date of Invitation 28. 03. 00

5. Item to be Amended

(1) Description

(2) Claims

6. Subject Matter of Amendment

As per the attached sheet

(1) "Document EP 0 554 172 A1 discloses a conventional, typical technique related to a construction and production method of PDP."
is inserted after "... increased." on page 1, line 14 of the DESCRIPTION.

(2) "Japanese Laid-Open Patent Application No.2-08834 discloses a technique for forming a fluorescent substance film by applying a fluorescent substance slurry then drying the applied slurry using high-temperature dry air."
is inserted after "... pastes." on page 3, line 8 of the DESCRIPTION.

(3) "The above ... degraded by heat."

on page 5, line 2 to page 6, line 12 of the DESCRIPTION is amended to:

"The above first object is achieved by improving the chromaticity of light emitted from blue fluorescent substance layers. This is achieved by setting the chromaticity coordinate y (the CIE color specification) of light to 0.07 or less or the peak wavelength of a spectrum of light to 453nm or less when vacuum ultraviolet rays are radiated onto the blue cells to excite the blue fluorescent substances.

Such an improvement in the chromaticity of light emitted from blue fluorescent substance layers as described above increases the color temperature of light (white balance) when the light is emitted from all the cells, and improves the color reproduction.

The above PDP having a superior chromaticity of light emitted from blue fluorescent substance layers is produced by performing the bonding process while steam vapor is forced to exhaust from the inner space by, for example, circulating a dry gas in the inner space.

The above PDP is also produced by performing a preparative heating step before the bonding process, where in the preparative heating step, a front panel and a back panel are heated in an atmosphere of dry gas while a space is opened between the sides of the panels facing each other. Alternatively, the above PDP is produced by performing a heating step before the bonding process, where in the heating step, a panel is heated while an MgO layer formed on the panel is in contact with a dry gas.

The above improvement is achieved by the production method of the present invention since it prevents blue fluorescent substances from being degraded by heat by reducing the amount of water preserved in the inner space. In contrast, in a conventional PDP production method, the blue fluorescent substances are degraded by heat of water trapped in the inner space in the bonding process, resulting in degradation of the light-emitting intensity and the chromaticity of emitted light.

The above PDP whose blue fluorescent substance layers emit light with a superior chromaticity is also produced by performing the bonding process, then after a while, heating the bonded panels to a certain temperature while circulating a dry gas in the